## **Quantitative Usage Analysis for Triclopyr**

Case Number: 2710 PC Code: 116001-2-4
Date: March 20, 2001 Analyst: Frank Hernandez

Based on available pesticide survey usage information for the years of 1990 through 1999, total annual domestic usage of triclopyr averaged approximately six hundred thousand pounds of active ingredient (a.i.) on about one million acres treated. Triclopyr is a herbicide with its largest markets in terms of total pounds of active ingredient allocated to woodland (21%), rice (16%), rights-of-way (15%), other hay (15%), railroads (8%), households (7%), and pasture (6%). Most of the usage is in AR, FL, GA, KS, LA, MS, TX, VA, and OK

Crops with a relatively high percentage of the total U.S. acreage treated include railroads (9%), rice (6%), and rights-of-way (2%). Crops with less than 1 percent of the crop treated include alfalfa, almonds, cotton, grapefruit, peanuts, potatoes, raspberries, soybeans, and wheat.

Site	Acres Grown	Acres Treated (000)		% of Crop Treated		LB AI Applied (000)		Average Application Rate			States of Most Usage
	(000)	Wtd Avg	Est Max	Wtd Avg	Est Max	Wtd Avg	Est Max	lb ai/ acre/yr	#appl / yr	lb ai/ A/appl	(% of total lb ai used on this site)
Alfalfa	23,665	2	7	0.0	0.0	1	2	0.3	1.0	0.3	OK IL 84%
Almonds	489	0	1	0.0	0.2	0	3	3.0	3.0	1.0	CA 100%
Apples	520	1	3	0.2	0.6	1	5	1.1	1.1	1.0	PA VA NH 83%
Blackberries	5	0	0	0.2	4.3	0	0	0.1	1.0	0.1	OR 100%
Blueberries	59	0	2	0.1	3.2	0	0	0.1	1.0	0.1	OR 100%
Cherries	114	0	1	0.1	0.8	0	0	0.0	1.0	0.0	OR 100%
Corn	43,359	27	109	0.1	0.3	3	8	0.1	1.0	0.1	TX IN IA KY 82%
Cotton	13,188	1	3	0.0	0.0	0	1	0.2	1.0	0.2	TX 100%
CRP Acres-long Term	34,757	37	101	0.1	0.3	6	13	0.2	1.0	0.2	KS FL GA MI 88%
Grapefruit	189	0	0	0.0	0.0	0	0	0.4	1.3	0.3	FL 100%
Grapes	615	0	2	0.1	0.3	1	2	1.3	1.0	1.3	WA PA 84%
Hay, Other	25,983	130	241	0.5	0.9	87	212	0.7	1.0	0.7	TX VA 80%
Household or Domestic	32,700	75	115	0.2	0.4	40	65	0.5	1.0	0.5	
Idle Cropland	7,461	3	10	0.0	0.1	1	5	0.5	1.0	0.5	TN IN WA CA 83%

Site	Acres Grown	Acres Treated (000)		% of Crop Treated		LB AI Applied (000)		Average Application Rate			States of Most Usage
	(000)	Wtd Avg	Est Max	Wtd Avg	Est Max	Wtd Avg	Est Max	lb ai/ acre/yr	#appl / yr	lb ai/ A/appl	(% of total lb ai used on this site)
Lots/Farmsteads/etc	23,987	68	103	0.3	0.4	33	65	0.5	1.2	0.4	TX OR CA AR IN MS 67%
Nut Trees	712	2	7	0.3	1.0	1	5	0.6	1.0	0.6	CA OR 94%
Oats/Rye	5,944	5	25	0.1	0.4	3	12	0.5	1.0	0.5	AR MS 95%
Oranges	927	1	6	0.1	0.7	1	4	0.7	1.0	0.7	FL 100%
Other Crops	2,515	0	10	0.0	0.4	0	102	1.0	1.0	1.0	NJ OR 100%
Pasture	86,960	68	117	0.1	0.1	34	88	0.5	1.0	0.5	KS TX WI FL 84%
Peaches	259	0	1	0.1	0.5	0	0	0.0	1.0	0.0	PA 100%
Peanuts	1,508	0	1	0.0	0.0	0	0	0.0	1.0	0.0	GA 100%
Pears	74	1	3	0.8	3.6	0	1	0.3	1.0	0.3	OR 100%
Pecans	452	0	2	0.1	0.4	0	0	0.0	1.0	0.0	OK 100%
Plums & Prunes	140	0	1	0.2	0.4	0	1	1.0	1.0	1.0	CA OR 100%
Potatoes	1,421	0	10	0.0	0.7	0	57	1.0	1.0	1.0	KY 100%
Railroads	1,060	90	165	8.5	15.6	45	80	0.5	1.0	0.5	TX OR MS IN PA IL 55%
Raspberries	13	0	1	0.0	4.1	0	1	1.0	1.0	1.0	WA 100%
Rice	3,175	190	352	6.0	11.1	90	123	0.5	1.0	0.5	AR LA MS 90%

Site	Acres Grown (000)	Acres Treated (000)		% of Crop Treated		LB AI Applied (000)		Average Application Rate			States of Most Usage
		Wtd Avg	Est Max	Wtd Avg	Est Max	Wtd Avg	Est Max	lb ai/ acre/yr	#appl / yr	lb ai/ A/appl	(% of total lb ai used on this site)
Rights-of-Way	3,200	75	100	2.3	3.1	85	125	1.1	1.0	1.1	TX WV GA VA OK KS 68%
Setaside Acres	21,802	8	15	0.0	0.1	2	5	0.3	1.0	0.3	TX OH 83%
Sod	152	1	7	0.5	4.9	0	5	0.7	1.0	0.7	WI 100%
Soybeans	66,303	10	42	0.0	0.1	2	12	0.2	1.0	0.2	MS AR 91%
Summer Fallow	29,040	3	10	0.0	0.0	1	166	0.3	1.0	0.3	MS OH FL 82%
Vegetables, All	3,899	1	10	0.0	0.3	1	86	1.1	1.0	1.1	WA WI MI NY TN 90%
Walnuts	215	2	7	0.7	3.1	0	3	0.3	1.0	0.3	OR 100%
Wheat, Winter	43,721	8	45	0.0	0.1	2	8	0.2	1.0	0.2	GA MD 93%
Woodland	62,167	150	253	0.2	0.4	120	324	0.8	1.2	0.6	FL OR TX OK WA 83%
Total		959	1,423			562	1,074				

## **COLUMN HEADINGS**

Wtd Avg = Weighted average--the most recent years and more reliable data are weighted more heavily. Est Max = Estimated maximum, which is estimated from available data. Average application rates are calculated from the weighted averages.

## **NOTES ON TABLE DATA**

Usage data primarily covers 1990 - 1999. Calculations of the above numbers are displayed as rounded to the nearest 1,000 for acres treated or lb. a.i. (therefore 0 = < 500); and to one decimal percentage point for % of crop treated.

Other/Crop Groups: Other Crops include ornamentals, popcorn, rapeseed/canola, and safflower.

SOURCES: EPA data, USDA, and National Center for Food and Agricultural Policy.